

Comparisons of Job Characteristics

Focus Occupation: [Diagnostic Medical Sonographers \(29-2032\)](#)

Associated Occupation: [Radiation Therapists \(29-1124\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 93

Focus Occupation: Diagnostic Medical Sonographers (29-2032)

Associated Occupation: Radiation Therapists (29-1124)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Customer and Personal Service	11.3	17.1	17.5	0	Current knowledge level may be sufficient
Medicine and Dentistry	3.7	14.3	14.6	0	Current knowledge level may be sufficient
Psychology	6.4	12.8	10.0	<<	Extensive education and/or training may be required
Biology	3.7	12.4	7.2	<<	Extensive education and/or training may be required
Physics	4.3	11.9	14.0	>	Current knowledge level is likely sufficient
Philosophy and Theology	3.2	7.1	4.0	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 90

Focus Occupation: Diagnostic Medical Sonographers (29-2032)

Associated Occupation: Radiation Therapists (29-1124)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Operation Monitoring	6.6	10.8	10.0	0	Current skill level may be sufficient
Operation and Control	5.4	10.7	9.5	<	A higher skill level may be required
Quality Control Analysis	5.9	9.7	8.1	<	A higher skill level may be required
Operations Analysis	5.0	7.9	4.7	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	6.9	5.6	<	A higher skill level may be required
Equipment Maintenance	3.5	6.7	6.7	0	Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 89			
Focus Occupation: Diagnostic Medical Sonographers (29-2032) Associated Occupation: Radiation Therapists (29-1124)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Problem Sensitivity	11.1	13.9	11.0	<	Some improvement in abilities may be required
Information Ordering	9.9	11.9	9.6	<	Some improvement in abilities may be required
Arm-Hand Steadiness	6.8	11.1	10.3	0	Current ability level may be sufficient
Perceptual Speed	7.4	9.2	8.3	<	Some improvement in abilities may be required
Speed of Limb Movement	3.2	5.6	3.4	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 71
Focus Occupation: Diagnostic Medical Sonographers (29-2032) Associated Occupation: Radiation Therapists (29-1124)		
Work Activities	Exclusivity of Activity	
Collect clinical data	56	
Communicate technical information	4	
Make presentations on health or medical issues	50	
Observe patient condition	48	
Take vital signs	56	
Understand technical operating, service or repair manuals	6	
Use interpersonal communication techniques	10	
Use knowledge of medical terminology	40	
Use sanitation practices in health care settings	48	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common	Similarity of Focus Occupation to Associated Occupation: 74
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Focus Occupation: Diagnostic Medical Sonographers (29-2032)
Associated Occupation: Radiation Therapists (29-1124)

Tools and Technologies	Exclusivity
Computers	1
Content authoring and editing software	1
Industry specific software	1
Medical diagnostic x ray products	26
Medical radiological positioning aids	47
Medical radiological shielding and protection products	31
Medical ultrasound and doppler and echo imaging products	19
Vision protection and accessories	3

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.